

PATENT ABSTRACTS OF JAPAN

A1

(11)Publication number : 06-228011

(43)Date of publication of application : 16.08.1994

(51)Int.Cl.

A61K 47/02
A61K 9/00

(21)Application number : 04-248774

(71)Applicant : OTSUKA MAKOTO
KYORITSU YOGYO GENRYO KK
S T K CERAMICS KENKYUSHO:KK

(22)Date of filing : 25.08.1992

(72)Inventor : OTSUKA MAKOTO
MATSUDA YOSHIHISA

(54) CALCIUM PHOSPHATE-BASED SUSTAINED RELEASE MATERIAL FOR DRUG AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain a sustained release material for drug capable of more firmly bonding and keeping a drug in a hard biotissue, easily controlling the releasing rate of the drug and getting a more effective sustained release effect and to provide a production method for the sustained release material.

CONSTITUTION: Tetracalcium phosphate is compounded with hydrogen calcium phosphate or its dihydrate at a ratio to get a molar Ca/P ratio corresponding to that of the hydroxyapatite composition and the obtained self-curable calcium phosphate cement composition is used as a base for holding a drug. The calcium phosphate cement composition is incorporated with 25-70wt.% of an aqueous solution of phosphoric acid having a concentration of 0.1-0.3 m-mol/L and the mixture is kneaded and cured to obtain a cured material having a void ratio controlled to 20-60% and having controlled releasing rate of the drug maintained in the cured material.

LEGAL STATUS

[Date of request for examination] 03.06.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3170059

[Date of registration] 16.03.2001

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

BEST AVAILABLE COPY